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OPTRONICS ENGINEERING

DEI-750 and DEI-750T



DEI-750



DEI-750T

Three 1/2" Hyper-Had CCDs achieve 750 lines of horizontal resolution by using spatial offset technology. This allows imaging of fine details on low magnification Brightfield specimens.

C-Mount microscope camera head easily mounts on any microscope with a C-mount video port. The compact 4.0 oz. camera head greatly reduces installation space requirements.

Micro prism covers a spectral range of 400 - 690 nM. Primary RGB filters ensure accurate colorimetry.

Real-time digital image enhancement expands the fine details of soft focus or low contrast images by utilizing a 2-D convolution filter, digital contrast, and brightness circuits.

On-chip integration enables exposure for up to 4 seconds for low emission fluorescence sample imaging. Long exposure increases camera sensitivity to 0.02 lux.

Color and B/M video outputs allow simultaneous delivery of a monochrome 750 TV line resolution image as well as providing true color images using RGB or Y/C outputs. The DEI-750 is compatible with any monochrome image processing system.

Remote video controller contains built-in memory that allows high speed image digitization to deliver video rate and freeze frame images. All camera functions are controlled through the full size

computer-style keyboard. The keyboard also functions as a video character generator allowing on-screen creation of titles.

DEI-750T with 2 Stage Thermoelectrical (Peltier) Cooling!

The DEI-750T remote camera head produces extremely low dark current to provide true8-bit dynamic range by utilizing a Thermoelectrically (Peitier) Cooled CCD. 2 stage thermoelectrically (Peltier) cooled to -37°C below ambient temperature. This cooling allows capture of noise-free images which are too dim for human vision.

On-Chip Integration permits exposure from 1/10,000 to 4 seconds for the DEI-750 and upto 2 minutes for the DEI-750T. This exposure system operates manually or automatically to accurately display samples ranging in illumination from dim fluorescence to normal brightfield viewings.

The camera head contains 0.5 reduction lens to emulate 1.0" CCD field of view. An optional remote head can be ordered without the lens (required on some microscope C-mount adapters).

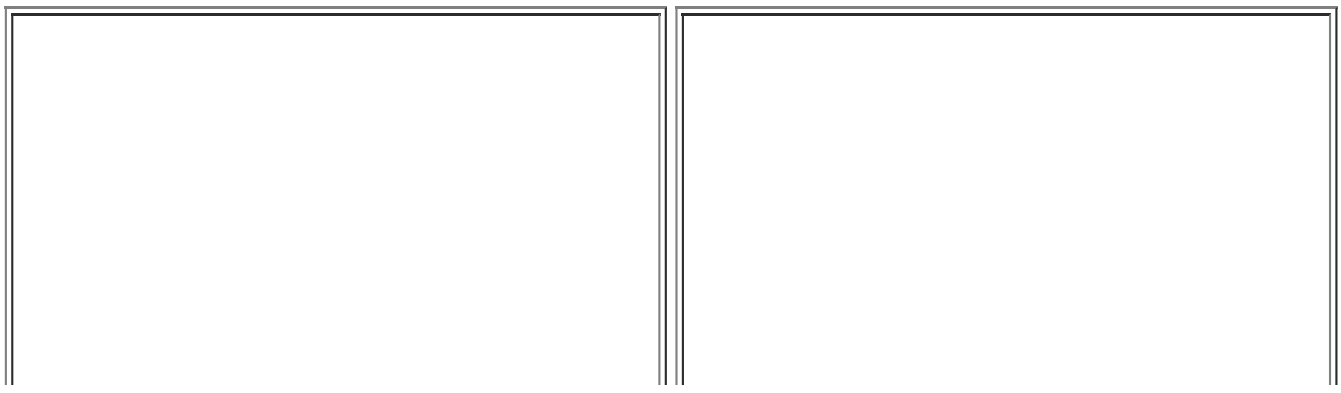
Specifications (DEI-750):

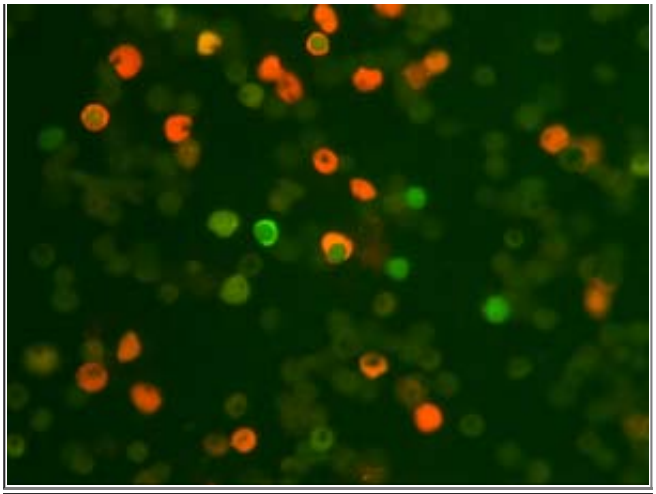
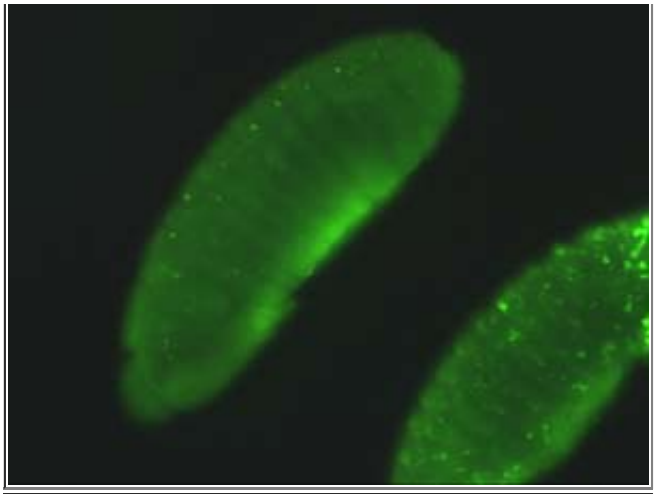
(Call for specific information on DEI-750T)

- **Image Device:**
  - Three 1/2" Interline Transfer Hyper HAD CCD mounted on RGB beamsplitting prism
- **Picture Elements:**
  - NTSC 768 (H) x 494 (V)
  - PAL: 752 (H) x 582 (V)
- **Sensing Area:**
  - 6.4 mm x 4.8 mm
- **Pixel Size:**
  - NTSC: 8.4 um x 9.8 um
  - PAL: 8.6um x 8.3um
- **Signal System:**
  - NTSC color; RS-1 70A monochrome
  - PAL color; CCIR standards
- **Scanning System:**
  - 2:1 interlace, 525 lines (NTSC); 625 lines (PAL)
- **Horizontal Frequency:**
  - 15.734 kHz (NTSC); 15.625 kHz (PAL)
- **Sync System:**
  - Internal
- **Resolution:**
  - 750 TV lines
- **Minimum Illumination:**
  - 0.02 lux at *f*1.2, 30 IRE output, OdB gain
- **Lens Mount:**
  - C-Mount
- **Auto Exposure:**
  - ON: AUTO, AUTO-, AUTO+ (Patented microprocessor controlled, Proprietary Continuous Ratchet Algorithm)
- **Electronic Shutter Speeds:**

    - 4, 2, 1, 1/2, 1/4, 1/8, 1/15, 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000 (seconds)
- **Signal to Noise Ratio:**
    - 60dB, 50 IRE output, OdB gain
- **Connections:**
    - Remote-Head In (Optronics Card-Edge Connector)
    - RGB and Sync Out (BNC)
    - Y/C Out (4 pin S-Video)
    - Composite Color Out (BNC)
    - Monochrome Out (BNC)
- **White Balance:**
    - Auto (2000°K to 6500°K); Manual red and blue gain adjustment
- **Operating Temperature:**
    - 32°F - 1 30°F (0°C to 55°C)
- **Power Requirements:**
    - 100 to 240 VAC, 50 - 60 Hz; 15 watts consumption
- **Gamma:**
    - .7 to 1
- **Memory:**
    - Non-volatile RAM. Retains White Balance, Exposure, Titles, Contrast, Sharpness, Brightness, Color, and Gamma
- **Camera Cable:**
    - 10 ft (3.04 m), 20 ft extension cable available
- **Processor:**
    - Weight: 9 lbs (4.1 kg)
    - Dimensions: 12 x 12.5 x 3.0 in(305 x 318 x 76 mm)
- **Remote Camera Head:**
    - Weight: 4.0 oz (.12 kg)
    - Dimensions: 1.75 in x 1.25 in (45 mm x 30 mm)
- **Color Bar Generator:**
    - SMPTE color bar pattern
- **Keyboard:**
    - Full size computer-style to allow on-screen creation of titles (192 alphanumeric upper and lower case characters) and control of all camera functions
- **Spectral Range:**
    - 400 - 690 nM, 10% response
- **Regulatory Compliance:**
    - Designed to meet IEC 601.1 Type 1, Class B and UL-544; Meets FCC, VDE limit B

Sample Images



	
750a_f.jpg (140k)	*750b_f.jpg* (69k)

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